

## ABSTRACT

An optical device is provided including a conductive film having first and second surfaces, at least one aperture provided in the conductive film and extending from the first surface to the second surface, and a surface topography formed on at least one of the first and second surfaces, wherein said surface topography increases an intensity of light 5 incident onto one of said first and second surfaces and transmitted through said aperture, wherein a region on which the surface topography is formed is larger than a region where the light is incident on the conductive film surface, and the aperture is formed on the region on which the surface topography is formed.